Problems: Flux Through Surfaces

Let $\mathbf{F} = \langle x, y, z \rangle$.

- 1. Find the flux of \mathbf{F} through the square with vertices (0,0,0), (1,0,0), (1,1,0), (0,1,0).
- **2**. Find the flux of **F** through the square with vertices (0,0,1), (1,0,1), (1,1,1), (0,1,1).
- **3**. Find the flux of **F** through the surface $x^2 + y^2 = 1$ with $0 \le z \le 1$.

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